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| Application Number | 10/654,668 |
| Filing Date | 09/04/2003 |
| First Named Inventor | Brian A. ROSENFELD |
| Art Unit | 3626 |
| Examiner Name | MORGAN, Robert W. |
| Attorney Docket Number | 2483-001CIP1 |

U. S. PATENT DOCUMENTS

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FOREIGN PATENT DOCUMENTS

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4/30/07

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SUPPLEMENTAL IDS STATEMENT –
 NON-PATENT LITERATURE DOCUMENTS

| Exam. Init. | CITE NO. | Reference |
|-------------|----------|--|
| RWM | 1. | Tsien, Christine L., "TrendFinder: Automated Detection of Alarmable Trends", Department of Electrical Engineering and Computer Science, Massachusetts Institute of Technology, Massachusetts; June 2000. |
| | 2. | Hosseinzadeh, Abolfazl, "A Rule-Based System for Vital Sign Monitoring in Intensive Care", Department of Electrical Engineering, McGill University, Montreal; November 1993. |
| | 3. | Aukburg, S.J. et al., "Automation of Physiological Data Presentation and Alarms in the Post Anesthesia Care Unit." In Symposium on Computer Applications in Medical Care, November 5-8, 1989, Washington, DC; pgs 580-582. |
| | 4. | Benis, A. M. et al., "Improved Detection of Adverse Cardiovascular Trends with the Use of a Two-Variable Computer Alarm" <i>Critical Care Medicine</i> , Vol. 8, No. 2, June 1980: 341-344. |
| | 5. | Bierman, M. I. et al., "Pulse Oximetry in the Postoperative Care of Cardiac Surgical Patients; A Randomized Controlled Trial." <i>Chest</i> , Vol. 102, No. 5, November 1992: 1367-1370. |
| | 6. | Bradshaw, K. E., "Computerized Alerting System Warns of Life-Threatening Events." In Symposium on Computer Application in Medical Care, October 25-26, 1986, Washington, DC; pgs 403-409. |
| | 7. | Chizeck, H. J., "Modeling, Simulation and Control in a Data Rich Environment." In Symposium on Computer Applications in Medical Care, October 25-26, 1986, Washington, DC; pgs 65-69. |
| | 8. | Coiera, E., "Intelligent Monitoring and Control of Dynamic Physiological Systems." <i>Artificial Intelligence in Medicine</i> , Vol. 5, 1993: pp 1-8. |
| | 9. | Colvin, J. R. et al., "Microcomputer-Controlled Administration of Vasodilators Following Cardiac Surgery: Technical Considerations." <i>J. Cardiothoracic Anesthesia</i> , Vol. 3, No. 1, February 1989: pp 10-15. |
| | 10. | Coplin, W. M. et al., "Accuracy of Continuous Jugular Bulb Oximetry in the Intensive Care Unit." <i>Neurosurgery</i> , Vol. 42, No. 3, March 1998: 533-540. |
| RWM | 11. | Crew, A. D. et al., "Preliminary Clinical Trials of a Computer-Based Cardiac Arrest Alarm." <i>Intensive Care Med</i> , Vol. 17, 1991: 359-364. |

| Exam. Init. | CITE NO. | Reference |
|-------------|----------|--|
| Rupl | 12. | Garfinkel, D. et al., "PONI: An Intelligent Alarm System for Respiratory and Circulation Management in the Operating Rooms." In Symposium on Computer Applications in Medical Care, November 6-9, 1988, Washington, DC; pgs 13-17. |
| | 13. | Garfinkel D. et al., "Patient Monitoring in the Operating Room: Validation of Instrument Reading by Artificial Intelligence Methods." In Symposium on Computer Applications in Medical Care, November 5-8, 1989, Washington, DC; pgs 575-579. |
| | 14. | Guedes de Oliveira, P. et al., "The Role of Computer Based Techniques in Patient Monitoring: Technical Note." <i>Acta Neuorochir</i> , Vol. 55, 1992 (Suppl.): 18-20. |
| | 15. | Hahnel, J. et al., "Can a Clinician Predict the Technical Equipment a Patient will Need During Intensive Care Unit Treatment? An Approach to Standardize and Redesign the Intensive Care Unit Workstation." <i>J Clinical Monitoring</i> , Vol. 8, No. 1, January 1992: 1-6. |
| | 16. | Hall, G. L. & P.B. Colditz, "Continuous Physiological Monitoring: An Integrated System for Use in Neonatal Intensive Care." <i>Australian Physical & Engineering Sciences in Medicine</i> , Vol. 18, No. 3, 1995; 139-142. |
| | 17. | Hayes-Roth, B. et al., "Guardian: An Experimental System for Intelligent ICU Monitoring." In Symposium on Computer Applications in Medical Care, November 5-9, 1994, Washington, DC; pg 1004. |
| | 18. | Irazuzta, Jose, "Monitoring in Pediatric Intensive Care." <i>Indian J. Pediatrics</i> , Vol. 60, 1993: 55-65. |
| | 19. | Jans, R. et al., "A Low Cost ECG Central Station for Intensive Care." <i>Australian Physical & Engineering Sciences in Medicine</i> , Vol. 13, No. 1, 1990: 31-35. |
| | 20. | Jastremski, M. et al., "A Model for Technology Assessment as Applied to Closed Loop Infusion Systems" <i>Critical Care Medicine</i> , Vol. 23, No. 10, October 1995: 1745-1755. |
| | 21. | Klass, M. A. & E. Y. Cheng, "Early Response to Pulse Oximetry Alarms with Telemetry." <i>J. Clinical Monitoring</i> , Vol. 10, No. 3, May 1994: 178-180. |
| | 22. | Koski, E. M. J. et al., "A Knowledge-Based Alarm System for Monitoring Cardiac Operated Patients – Assessment of Clinical Performance." <i>International J Clinical Monitoring and Computing</i> , Vol. 11, 1994: 79-83. |
| RwM | 23. | Koski, E. M. J. et al., "Development of an Expert System for Haemodynamic Monitoring: Computerized Symbolism of On-Line Monitoring Data." <i>International J. Clinical Monitoring and Computing</i> , Vol. 8, 1992: 289-293. |

| Exam. Init. | CITE NO. | Reference |
|-------------|----------|--|
| RWM | 24. | Laffel, G. et al., "Using Control Charts to Analyze Serial Patient-Related Data." <i>Quality Management in Health Care</i> , Vol.3, No. 1, Fall 1994: 70-77. |
| | 25. | L'Estrange, P. R. et al., "A Microcomputer System for Physiological Data Collection and Analysis." <i>Australian Dental Journal</i> , Vol. 38, No. 5, October 1993: 400-405. |
| | 26. | M. de Beer, N. A. et al., "Clinical Evaluation of a Method for Automatic Detection and Removal of Artifacts in Auditory Evoked Potential Monitoring." <i>J Clinical Monitoring</i> , Vol. 11, No. 6, November 1995: 381-391. |
| | 27. | Makivirta, A. et al., "The Median Filter as a Preprocessor for a Patient Monitor Limit Alarm System in Intensive Care." <i>Computer Methods and Programs in Biomedicine</i> , Vol. 34, No. 2/3, February/March 1991: 139-144. |
| | 28. | Makivirta, A. & E. M. J. Koski, "Alarm-Inducing Variability in Cardiac Postoperative Data and the Effects of Prealarm Delay." <i>Critical Care Medicine</i> , Vol. 8, No. 6, May 1994: 153-162 |
| | 29. | Martin, J. F., "Closed-Loop Control of Arterial Pressure During Cardiac Surgery." <i>J. Clinical Monitoring</i> , Vol. 8, No. 3, July 1992: 252-253. |
| | 30. | Meyer, C., "Visions of Tomorrow's ICU." <i>American J. Nursing</i> , April 1993: 27-31. |
| | 31. | Nenov, V. I. et al., "Computer Applications in the Intensive Care Unit." <i>Neurosurgery Clinics of North America</i> , Vol. 5, No. 4, October 1994: 811-827. |
| | 32. | Nobel, J. J., "Physiologic Monitoring Systems, Acute Care." <i>Pediatric Emergency Care</i> , Vol. 8, No. 4, August 1992: 235-237. |
| | 33. | Orr, J. A. & Westenskow, D. R., "A Breathing Circuit Alarm System Based on Neural Networks." <i>J. Clinical Monitoring</i> , Vol. 10, No. 2, March 1994: 101-109. |
| | 34. | Pappert, D. et al., "Preliminary Evaluation of a New Continuous Intra-Arterial Blood Gas Monitoring Device." <i>Acta Anaesthesiologica Scandinavica</i> , Suppl. 107, Vol. 39, 1995: 67-70. |
| | 35. | Rampil, I. J., "Intelligent Detection of Artifact." <i>The Automated Anesthesia Record and Alarm Systems</i> , Chapter 17, 1987: 175-190. |
| | 36. | Runciman, W. B. et al., "The Pulse Oximeter: Applications and Limitations - An Analysis of 2000 Incident Reports." <i>Anaesthesia and Intensive Care</i> , Vol. 21, No. 5, October 1993: 543-550. |
| RWM | 37. | Sailors, R. M., "A Model-Based Simulator for Testing Rule-Based Decision Support Systems for Mechanical Ventilation of ARDS Patients." In Symposium on Computer Applications in Medical Care, November 5-9, 1994, Washington, DC; pg 1007. |

| Exam. Init. | CITE NO. | Reference |
|-------------|----------|---|
| RWM | 38. | Sanklecha, M., "The Pulse Oximeter." <i>Indian J. Pediatrics</i> , Vol. 60, No. 3, 1993: 469-470. |
| | 39. | Schnapp, L. M. & N. H. Cohen, "Pulse Oximetry; Uses and Abuses." <i>Chest</i> , Vol. 98, No. 5, November 1990: 1244-1250. |
| | 40. | Simpson, R. L., "Automating the ICU: Facing the Realities." <i>Nursing Management</i> , Vol. 23, No. 3, March 1992: 24-26. |
| | 41. | Sittig, D. F. & M. Factor, "Physiological Trend Detection and Artifact Rejection: A Parallel Implementation of a Multi-State Kalman Filtering Algorithm." In Symposium on Computer Applications in Medical Care, November 5-8, 1989, Washington, DC; pgs 569-574. |
| | 42. | Stoodley, K. D. C. et al., "Problems in the Development of a Computerized Ward Monitoring System for a Pediatric Intensive Care Unit." <i>International J Clinical Monitoring and Computing</i> , Vol. 8, 1992: 281-287. |
| | 43. | Sukavaara, T. et al., "A Knowledge-based Alarm System for Monitoring Cardiac Operated Patients - Technical Construction and Evaluation." <i>International J. Clinical Monitoring and Computing</i> , Vol. 10, 1993: 117-126. |
| | 44. | Szaflarski, N. L., "Emerging Technology in Critical Care: Continuous Intra-Arterial Blood Gas Monitoring." <i>American J. Critical Care</i> , Vol. 5, No. 1, January 1996: 55-65. |
| | 45. | Uckun, S., "Intelligent Systems in Patient Monitoring and Therapy Management." <i>International J. Clinical Monitoring and Computing</i> , Vol. 11, 1994: 241-253. |
| | 46. | Webb, R. K., "Medical Decision Making and Decision Analysis." <i>Anesthesia and Intensive Care</i> , Vol. 16, No. 1, February 1988: 107-109. |
| | 47. | Yien, H. et al., "Spectral Analysis of Systemic Arterial Pressure and Heart Rate Signals as a Prognostic Tool for the Prediction of Patient Outcome in the Intensive Care Unit." <i>Critical Care Medicine</i> , Vol. 25, No. 2, 1997: 258-266. |
| | 48. | Tsien, Christine L. and James Fackler, "Poor Prognosis for Existing Monitors in the Intensive Care Unit" <i>Critical Care Medicine</i> , Vol. 25, No. 4, 1997: 614-619. |
| | 49. | Tsien, Christine L.. "Reducing False Alarms in the Intensive Care Unit: A Systematic Comparison of Four Algorithms" Proceedings <i>AMIA Symposium</i> , 1997. Pages 9-14 (unnumbered). |
| RWM | 50. | Tsien, Christine L. "Reducing False Alarms in the Intensive Care Unit: A Systematic Comparison of Four Algorithms" Proceedings Annual <i>AMIA Fall Symposium</i> (1997), page 8 94. |

| Exam. Init. | CITE NO. | Reference |
|-------------|----------|--|
| RWM | 51. | Tsien, Christine L. and James C. Fackler "An Annotated Data Collection System to Support Intelligent Analysis of Intensive Care Unit Data." Proceedings of the Second International Symposium on Advances in Intelligent Data Analysis, Reasoning about Data; August 4-6, 1997; X. Liu, P. R. Cohen, and M. R. Berthold, Eds.; Springer-Verlag, London, UK; pages 111-121. |
| RWM | 52. | Zhao, Ruilin, "A Model-Based Expert System for Interpretation of Hemodynamic Data from ICU Patients." Department of Electrical Engineering and Computer Science, Massachusetts Institute of Technology; May 18, 1997 (pp 1-121). |

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Examiner Signature

4/30/07
Date Considered